WESSELS MINE
TAILINGS FACILITY INFORMATION

Tailings Storage Facility (TSF) Information (GISTM Requirement 15.1 B1)

Our South Africa Manganese operation consists of two manganese mines in the Kalahari Basin in the country's Northern Cape province, which is home to 80 per cent of the world's manganese, and the Metalloys manganese alloy smelter which was placed on care and maintenance in FY20.

Wessels Mine, is located approximately 20 km north-west of the town Hotazel in the Northern Cape province. The topography of the mine is characterised by relatively flat to gently undulating landscape with occasional hills and ridges. No mapped watercourses occur on the site, with the Kuruman river situated around 6 km to the north of the mine.

Wessels mine is an underground mining operation where the mined ore is brought to the surface, processed through screening, crushing and washing. Wet fines are pumped to the Slimes Dam TSF where they are dried and reclaimed for sale.

Slimes Dam TSF (GISTM Requirement 15.1 B5)

The Slimes Dam TSF was formed by constructing perimeter walls using waste rock. The facility was originally constructed with four compartments which were used to settle and dry the tailings. Once dry, the tailings were removed mechanically and stockpiled for sale.

In 2010 the facility was redesigned and constructed to be a permanent facility by reshaping the existing perimeter walls with cut-and-fill and a new western embankment constructed. Temporary cells are created with the storage area for cycling of placement, drying and reclamation. Decant water is pumped from each cell to temporary water storage before being reused in the process plant.

Description	Year	Method	Height (toe to crest) [m]	Crest Level [m] Mine Datum
Starter Embankment	Pre-2010	Starter	6	1,046
2010 Redesign	2010	Downstream	6	1,046

Table 11: Slimes Dam Construction History